Attorney Docket No. 82995

Application Serial No: 10/730,184 In reply to Office Action of 11 May 2004

AMENDMENTS TO THE CLAIMS

- 1. (Cancelled)
- 2. (Cancelled)
- 3. (Currently amended) [[The]] A weapon system in accordance with claim 2 further suitable for an underwater environment, said weapon system comprising:
 - a vehicle housing defined by a first portion and a second

 portion spaced apart from one another wherein said

 first and second portions are each configured to

 include a fixed wing and a plurality of movable

 control surfaces capable of maneuvering said weapon

 system;
 - a swivelable tow coupling mounted to said vehicle housing wherein the swiveling action of said tow coupling stabilizes the position of said weapon system:
 - a gun system sealed within a waterproof housing, said gun
 system including a gun with a muzzle of said gun
 protruding from said waterproof housing, said gun
 system rotatably mounted to and between said first
 portion and said second portion at an axis of
 rotation; and

2 of 12

Attorney Docket No. 82995

means for rotating said gun system to a position to fire said gun at a target.

- 4. (Original) The weapon system in accordance with claim 3 further comprising means for searching for the target and controlling said oun system to fire at the target.
- 5. (Currently amended) The weapon system in accordance with claim [[2]] 3 further comprising means for propulsion.
- 6. (Original) The weapon system in accordance with claim 5 further comprising means for searching for the target and controlling said gun system to fire at the target.
- 7. (Cancelled)
- 8. (Currently amended) [[The]] A weapon system in accordance with claim 7 further suitable for an underwater environment, said weapon system comprising:
 - are spaced apart from one another, said first and

 second halves balanced to each other as mirror images

 of one another with respect to an imaginary plane that

Attorney Docket No. 82995

- passes therebetween, wherein the balance of said first and
 second halves allows said vehicle housing to move
 through the water in a direction substantially aligned
 with the imaginary plane;
- a swivellable tow couple mounted to said vehicle housing and centered on the imaginary plane wherein the swiveling action of said tow coupling stabilizes the position of said weapon system;
- a gun system including a gun and ammunition sealed within a

 waterproof housing with a muzzle of said gun

 protruding from said waterproof housing, said gun

 system being rotatably mounted to and between said

 first and second halves of said vehicle housing at an

 axis of rotation, wherein said muzzle can discharge

 said ammunition therefrom into the water; and
- means for rotating said gun system relative to said first

 and second halves of said vehicle housing to a

 position where said muzzle is positioned to fire said

 ammunition towards an underwater target.

Attorney Docket No. 82995

- 9. (Currently amended) The weapon system in accordance with claim 8 wherein each [[said]] exterior of said first and second halves of said vehicle housing is configured to include:
 - a V-shaped fixed wing having a substantially forward-facing surface and a substantially aft-facing surface; and
 - a plurality of movable control surfaces capable of maneuvering said weapon system.
- 10. (Currently amended) The weapon system in accordance with claim 9 wherein said means for rotating weapon system further includes:
 - sonar arrays a sensing means coupled to each of said
 substantially forward-facing surfaces and said
 substantially aft-facing surfaces; and
 - a <u>processing</u> means <u>for processing outputs therefrom</u> coupled and responsive to said sonar arrays <u>sensing means</u> such that said weapon system searches for the underwater target and determines the position for said gun system to fire at the underwater target.

Attorney Docket No. 82995

- 11. (Currently amended) The weapon system in accordance with claim [[7]]8 further comprising means for propulsion coupled to each of said first and second halves.
- 12. (Currently amended) The weapon system in accordance with claim 11 wherein each [[said]] exterior of said first and second halves of said vehicle housing is configured to include:
 - a V-shaped fixed wing having a substantially forward-facing surface and a substantially aft-facing surface; and
 - a plurality of movable control surfaces capable of maneuvering said weapon system.
- 13. (Currently amended) The weapon system in accordance with claim 12 wherein said means for rotating said weapon system further includes:
 - sonar arrays a sensing means coupled to each of said
 substantially forward-facing surfaces and said
 substantially aft-facing surfaces; and
 - a processing means for processing outputs therefrom coupled

 and responsive to said sonar arrays sensing means such
 that said weapon system searches for the underwater

Attorney Docket No. 82995

target and determines the position for said gun system to fire at the underwater target.